

Receiving Report

Date: 9/10/15

Batch No: 11/1/787

Supplier: MOGWA

Dart P/O: 8765

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 8210510 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 09/05/19
 Date RCP 11097
 Received/Costing 02
 Initial

Location _____

**Magna Stainless**

5775 Kieran St, Saint-Laurent QC H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

INVOICE

Pg 1 of 1

I011250

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

MTR:Y

INVOICE DATE:	05/15/09
ORDER DATE:	05/08/09
SHIP DATE:	05/15/09
ORDER NUMBER:	W012153
PURCHASE ORDER:	8765

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK-BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		3	PC	ALUMINUM SHEET ASH 2024 T3 .063" x 48" x 144" L026418 3 PC/135 LB	3 PC	445.00	1,335.00
		222	LB	MLB 17-4 PH 1 1/4" X 2" X 144" L026417 229 LB	2 PC	575.00	1,150.00
		4	PC	STAINLESS ROUNDS SRB 303 1/2" x R/L L025707 12'2" 1 PC/8 LB L025708 12'1" 3 PC/24 LB	4 PC	26.00	104.00
		2	PC	SRB 303 5/16" x R/L L024195 12'6" 2 PC/6 LB	2 PC	10.00	20.00

RECEIVED MAY 25 2009

05/19/09 14:27:52

Merchandise:	2,609.00
Surcharges:	
No Tax Costs:	
GST	130.45
Total Due:	2,739.45

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001

Dart Aerospace Ltd

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613) 632-3336
Fax: (613) 632-4443

Receiving Slip

Date May 19, 2009	Page 1
Receipt Number RCP00011047	

Purchase From:

Magna Stainless
5775 rue Kieran
St Laurent, Quebec H4S 0A3
Canada

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Description	Contact	Vendor Number	PO Number
			VC-MAG002	PO00008765

Vendor Item Number	Item Number	Description	Qty. Received	UOM	Unit Cost	Extended Cost	Arrival Date
	M303R0500	303 Round Bar 0.500" (NOTE: AISI 304/316 NOT ACCEPTABLE) MATERIAL: AISI 303 ROUND BAR B/N111787	48.0416	f	2.600000	124.91	May 19, 2009
	M303R0313	303 ROUND BAR .313 AS ABOVE B/N111787	25.0166	f	0.833333	20.85	May 19, 2009
	M2024T3S063	2024-T3 .063 sheet PER AMS-QQ-A-250/4 OR AMS 4037 MATERIAL: 2024-T3 ALUMINUM SHEET B/N111787	144.0000	sf	9.270833	1,335.00	May 19, 2009
	M174B1250X0200	17-4 SS Bar 1.250 x 2.0 MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI MINIMUM YIELD TENSILE STRENGTH = 100 KSI GRAIN MUST RUN ALONG LENGTH OF BAR PER AMS 5604/5643 MATERIAL: 17-4 PH SS BAR B/N111787	24.0000	f	47.916666	1,150.00	May 19, 2009

Comments:



Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST

I011250

Page: 1 of 1

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY, ON
K6A 1K7
Contact: CHANTAL

HAWKESBURY, ON
K6A 1K7
Ship Terms: PREPAID

MTR: 

SPECIAL INSTRUCTIONS

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS	(613) 632-5200	(613) 632-1053	8765	
Sales Order	Terms		Ship Via	Date Ordered	Date Required	Date Shipped
W012153	NET 30 DAYS		NIR:R-557065-1	05/08/09	05/15/09	05/15/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
3		PC	ALUMINUM SHEET ASH 2024 T3 .063" x 48" x 144" ✓ 135 LB / 3 PC	L026418	459844A7	3
222		LB	MLB 17-4 PH 1 1/4" X 2" X 144" ✓ 229 LB / 2 PC	L026417	421806	229
4		PC	STAINLESS ROUNDS SRB 303 1/2" x R/L 12'2" 8 LB / 1 PC	L025707	421337	1
			12'1" 24 LB / 3 PC	L025708	422802	3
2		PC	SRB 303 5/16" x R/L 12'6" 6 LB / 2 PC	L024195	422176	2
Bundles: 2				Total Weight:		402 LB

Handwritten notes:
- "Solid with 12151" written across the bottom of the table.
- "L024195" written vertically next to the last row.

Received by: _____ Date: _____ Signature: _____

DART

Purchase Order

Date May 08, 2009	Page 1
Purchase Order Number PO00008765	

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613)632-9577
Fax: (613)632-1053

FAKED
6/8/09

Vendor Address:

Magna Stainless
5775 rue Kieran
St Laurent, Quebec H4S 0A3
Canada
Phone (514) 339-1211
Fax (514) 339-1105

Ship To:

Main Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Contact	Vendor Number	PO Date	Terms	Ship Via	Expected Arrival
		VC-MAG002	May 08, 2009	N30	yours	May 13, 2009

Qty. Ordered	Item Number	Description	Expected Arrival	Drop-Ship	Unit Cost	UOM	Extended Price
40.0000 <i>New 4/8-00</i>	M303R0500	303 Round Bar 0.500" Comments: MATERIAL: AISI 303 ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)	13/05/2009	No	2.600000	f	104.00
24.0000 <i>24.0000</i>	M303R0313	303 ROUND BAR .313 Comments: AS ABOVE	13/05/2009	No	0.833333	f	20.00
144.0000 <i>144.0000</i>	M2024T3S063	2024-T3 .063 sheet Comments: MATERIAL: 2024-T3 ALUMINUM SHEET PER AMS-QQ-A-250/4 OR AMS 4037	13/05/2009	No	9.270833	sf	1.335.00
24.0000 <i>24.0000</i>	M174B1250X02000	17-4 SS Bar 1.250 x 2.00 Comments: MATERIAL: 17-4 PH SS BAR PER AMS 5604/5643 GRAIN MUST RUN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI	13/05/2009	No	47.916666	f	1.150.00

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

Comments:

Tax Summary:
GST
ONT PST

130.45
0.00

Less:
included tax

0.00

Subtotal

2,609.00

Total tax

130.45

Total purchase order in

CAD Dollars

2,739.45

Entered By: *CL* CLAVOIE

Approved By: *h*

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Item/Usine production

Avviso di Spedizione: D-VI08023633
Lieferanweisung/Facking list/B.L.

Certificato nr: MEST668292/2008/
Prüfung/Test/Essai

Conferma ordine nr: EI08003212
Works/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Signe de l'usine productrice



Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Item inspected/Flessagen

Tipo di Elaborazione: E+AOD
Einschmelzungsart/Refining process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Policeur de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences
VAL CANADA 2 303 A,CF
ASTM A314 97 S30300
DOD-F-24669 6 S30300
(0) SEC.II PT.A 2007 EDITION

AMS 5640 U TYPE1
ASTM A320 2008 B8F
MIL-S-862 B/1 303

ASME SA320 2007 B8F (0)
ASTM A582 2005 S30300
QQ-S-764 B/2 303

Qualità: T-303
Werkstoff/Grade/Qualité

Marca: VPAU188Z VALPLUS
Markenbezeichnung/Brand/Numéro

Punzonatura: T-303
Kennzeichnung/Marking/Markierung

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolérance	Lunghezza - Ft Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0010	Round	0,3125	484-06B	13 / 13	422176		17.320	810205730

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind e. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spezialanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimeslange fait: r.s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST	Provetta/Probe Rechenstempel Long diam. Spec. Rechte Diam. Dicke Weib. diam. Thickness Long diam. mm	°F	Posiz. Stigolo Position Lieu	Snervamento Streckgrenze Yield Stress Limite élasticité Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élasticité	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resilienza Kerbschlagarbeit Impact Value Résilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max			30	-	75	35	50	-	140 241
A	7,93	68	L	87		114	38	53		239

1) L = longitudinal/longitudinal, Q = transversal/quer, T = Tangential/tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze / Coulée	min max 0,150	1,00	2,00	17,00 19,00	0,60	1,00	8,00 10,00	0,15	0,15 0,40						
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %					
422176	0,045	0,39	1,85	17,39	0,47	0,59	8,05	0,067	0,03	0,30					

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 0,5 h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Milled and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

Vicenza, 11/09/08

VCC0008
(Mod. MCFR)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 1

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliet
VALBRUNA CANADA LTD
8724 HOLTGATE CRESCENT
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Usine productrice

Avviso di Spedizione: D-VI08033249
Lieferanzeige/Packing list/B.L.

Certificato nr: MEST703352/2008/
Prüfung/Test/Essai

Conferma ordine nr: EI08012249
Works/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Siglo de fusine productrice



Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Item Inspected/Finissage

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Parçonn de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 303 HS A,CF
ASME SA320 2007 B8F 0
ASTM A370 2008A
QQ-S-764 B/2 303 A
(0) SEC.II PT.A 2007 EDITION
(1) Chemical analysis only.

AMS 5640 U S30300 A
ASTM A314 97 S30300
ASTM A582 2005 S30300 A

AMS 5640 U TYPE1 A
ASTM A320 2008 B8F (1)
MIL-S-862 B/1 303

0Chemical analysis only.

Qualità: T-303
Werkstoff/Grade/Numéro

Marca: MV188ZHS MAXIVAL
Markenbezeichnung/Brand/Nuance

Punzonatura: 303
Kennzeichnung/Marking/Marquage

Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descript. du produit	Dimensioni - In Abmessungen Dimensions Dimensions	Tolleranza Toleranz Allowance Tolérance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0020	Round	0,5000	484-06B	146 / 146	421337		2,134	820500030

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind i. d. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimesclange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze:
Beachtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST	Provetta/Probe Specimen/Eprouvette Long diam. Spess Büch. Diam. Dicke Wdh. Diam. Thickness Long diam. épais mm	°F	Posiz. Saggio Position Lieu de l'essai	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Sirizione Einschnürung Reduction of area Séction RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max		-	-	-	-	-	-	140 255
A	12,5	68	L	88		115	31	52		253

Grain size for ASTM E112

: 6

1) L=longitudinale/Rp0,2: T=transversale/quot. Q=Tangenziale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata/Heat Schmelze/Coulée	min 0,030 max 0,050	0,20 1,00	1,50 2,00	17,00 19,00	- 0,60	1,00	8,00 10,00	- 0,100	0,32 0,40	0,4000	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
421337	0,035	0,44	1,90	17,44	0,43	0,55	8,21	0,08	0,024	0,34	0,0039			

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 0.5 h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s., 4.3 by TUEV and LLOYD'S

Vicenza, 12/12/08

VCO008
(Mod. MCER)

Il collaudatore di stabilimento / der Werksachverständiger / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 1

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Usine productrice

Avviso di Spedizione: D-VI08033249
Lieferschein/Speditionslieferzettel

Ordine nr: 812002092 Stock - Canada
Bestell/Your order/Commande

Certificato nr: MEST703353/2008/
Prüfung/Test/Essai

Conferma ordine nr: EI08012249
Works/Our Order/Ret. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Oggetto Prove: - Annealed Cold Drawn
Prüfgegenstand/Norm Inspected/Fixage

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Position de l'inspecteur

Specifiche:
Anforderungen / Requirements / Exigences:

VSI 0 303 HS A,CF
ASME SA320 2007 B8F 0
ASTM A370 2008A
QQ-S-764 B/2 303 A
(1) SEC.II PT.A 2007 EDITION
(1) Chemical analysis only.

AMS 5640 U S30300 A
ASTM A314 97 S30300
ASTM A582 2005 S30300 A

0Chemical analysis only.

AMS 5640 U TYPE 1 A
ASTM A320 2008 B8F (1)
MIL-S-862 B/1 303

Qualità: T-303
Werkstoff/Grade/Numéro

Marca: MV188ZHS MAXIVAL
Markenbezeichnung/Brand/Numéro

Punzonatura: 303
Kenzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolérance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0020	Round	0,5000	484-06B	145 / 145	422802		2.383	826900790

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind z. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK
Vermischungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze:
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST	Provetta/Probette Specimen/Eprouvette Läng diam. Spitz Bore diam. Dicks Wett diam. Thickness Larg diam. épais mm	°F	Posiz. Saggio Prove Lieu Lieu	Snervamento Streckgrenze Yield Stress Limite d'élasticité Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite d'élasticité	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Drehdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Soudure RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max									140 255
A	12,5	68	L	78		108	38	53		252

Grain size for ASTM E112

: 5

1) L=longitudinale/längs, T=transversale/quer, Q=Tangenziale/tangentiel

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min 0,030 max 0,050	0,20 1,00	1,50 2,00	17,00 19,00	0,60 1,00	1,00 10,00	8,00 10,00	0,100 0,40	0,32 0,40	0,4000 0,0044				
422802	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
	0,042	0,44	1,81	17,42	0,41	0,63	8,20	0,09	0,027	0,34	0,0044			

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 0.5 h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1.s..4.3 by TUEV and LLOYD'S

Vicenza, 12/12/08 VCO008 (Mod. MCER)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 1
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BÖLLINGHAUS STEEL		Abnahmeprüfzeugnis / Test Certificate / Cert. de Qualidade EN 10204:2004 / 3.1		No. 0000061729	
Böllinghaus Portugal Aços Especiais, SA DIN EN ISO 9001:2000 TÜV CERT No. 01 100 030458		Unsere innere Verweisung / Our Int. Ref / ref int 5600009812 000120		Datum / Date / Data 23.10.2008	
Normen / Standards / Normas AISI 830/17-4PH lot. acc. to ASTM A484/A484M-06-b, specifications acc. to: ASTM A370-05, A564/A564M-04, E370, AMS 5643R, ASME SA 370, SA 564, ASTM F899-02, MTR acc. to EN 10204/3.1					
Kunde / Customer / Cliente			Endgültiger Kunde / Final Customer / Cliente Final		
Bestell Nr./Order Nr./Enc.Nr. P80610AM001			Bestell Nr./Order Nr./Enc.Nr. P80610AM.16		
Prüfgegenstand / Product / Produto AISI T630 FLAT 2 x 1 1/4"		Gewicht / Weight / Peso 4,326 lb		Bunde / Bundle / Alados 02	
Werkstoff-Nr. Material-no. Qualidade 1.4542		Werkstoff-Normbezeichnung / Material standard grade / Norma do material 830			
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed, straightened, pickled. US DFAR 252.225-7014: MELT SOURCE: Germany / MFG: Portugal.					
Schmelzen Nr. Cast nr. / Fusão nr. 421806		Chemische Analyse in % / Chemical composition in % / Análise química em % BY RYAN McDONALD, CERTIFICATION PROCESSOR			
C: 0.025 Si: 0.400 Mn: 0.640 P: 0.021 S: 0.001 Cr: 15.040 Ni: 4.590					
EAF Mo: 0.080 Co: 0.030 Cu: 3.030 N: 0.023 Ti: 0.001 Nb: 0.241 Ta: 0.000					
Proben Nr. Test no. Amostra no. 3016607.01.01		ASTM E399 Kerbschlagenergie Impact Test Resistência (Charpy V) (J) 180.6		ASTM A370 Zugfestigkeit Tensile strength Tensão de ruptura R _m [Ksi] 207.8	
		Streckgrenze Yield point Tensão limite Rp 0.2 %[Ksi] 180.6		Dehnung 1% point Limite de extensão Rp 1.0%[Ksi] 194.5	
				Dehnung Elongation Alongamento A (A50-50mm) 11%	
				Einschnürung Reduction of area Coef. Estricção Z (A50-50mm) 47%	
Visuelle Kontrolle Visual inspection Inspeção visual OK		ASTM E370 Härte Hardness Dureza [HB] 308		Korrosionsbeständigkeit IC Test Corrosão Intermetálica Werkstoffprüfer Quality Control Representative Inspector da Qualidade José Santos	
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional OK		Mikroskopische Untersuchung Microstructure Analysis approved per AMS 2316		Wärmebehandlung Heat treatment Tratamento térmico Solution Annealed 1900 °F (6 hrs) Alterungsbehandlung Aging Treatment Ensaio de envelhecimento 431 HB H900 (900°F, 1Hour) Cool in air	
Verwechslungsprüfung Test of identity Teste de identificação OK		Makroskopische Untersuchung Macrostructure Analysis Material free from segregation defects. OK			
Bemerkungen / Remarks / Observações Material is free of mercury contamination, no weld repair done.				Böllinghaus Portugal - Aços Especiais, SA Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according the mentioned according the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.	

FR 03.02.05/1

2004867-421806

SHIP TO:

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4156331

SOLD TO:

CUSTOMER PO NUMBER: P90126DK005		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD ID: 101485/12	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1080184	LINE ITEM: 6	SHIP DATE: 2-MAR-2009	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: MILL FINISH SHEET	
WEIGHT SHIPPED: 3316 LB	QUANTITY: 74 PCS EST.	B/L NUMBER: 2021716	GAUGE: 0.0630 IN	WIDTH: 48.000 IN	LENGTH: 144.000 IN		

Certified SpecificationsAMS 4037/RevN
CMMP 019/RevDAMS-QQ-A-250/4/RevA
CMMP 025/RevR

ASTM B 209/Rev07

Test Code: 1504

Test Results

Lot: 459844A7 Cast 453

Drop 22

Ingot 2

(ASTM E8/B567)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	65.3 : 66.0 (450 : 455)	43.5 : 44.0 (300 : 303)	19.7 : 22.4

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.08	0.23	4.6	0.53	1.3	0.01	0.18	0.01	0.01	0.01	TOT 0.03

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024 MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

2024-T351 plate 3.001-4.000" thick, if ultrasonically
Inspected, meets requirements of CMMP025 per SDR
CMMP025-KaiserT-2.

P004867 - 459844A7



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4156331

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 225.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRE OR PARTIAL COPIES OF THIS CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR

Page 2 of 2

Date : Friday, 08/05/2009 6:59:45 AM

User : Chantal Lavoie

AUTO PO REQUIREMENTS LIST

Job /SO Number	Seqn	Item	Supplier	Qty	Price	Date Required	Lead	Make
	0.0	18200	VU-VIV001	1.00000000	0.0000	19/06/2009	0	N
	0.0	825 221	VC-HAS001	50.00000000	3.0793	19/06/2009	1	N
	0.0	93695K88	VU-MCM001	50.00000000	0.2318	19/06/2009	1	N
	0.0	AELS1032130	VU-MMA001	10.00000000	0.0000	19/06/2009	0	N
	0.0	AN417A	VU-AIR002	1000.00000000	0.0000	19/06/2009	0	N
	0.0	AN5261032R9	VU-BIL001	100.00000000	200 0.0000	19/06/2009	0	N
	0.0	CHM10601	VU-MMA001	50.00000000	0.0000	19/06/2009	0	N
	0.0	CP72530	VU-MCM001	20.00000000	0.0000	19/06/2009	0	N
	0.0	D25761	VC-ALP001	100.00000000	0.0000	19/06/2009	0	N
	0.0	D26005108	VC-BON001	240.00000000	0.0000	19/06/2009	0	N
	0.0	D26007125	VC-IND006	104.00000000	0.0000	19/06/2009	0	N
	0.0	D2986	VC-ACR001	23.60400000	3.3525	19/06/2009	1	N
	0.0	D31881	VC-DEL002	4.00000000	0.0000	19/06/2009	0	N
	0.0	D32552	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D33091	VC-STU001	10.00000000	0.0000	19/06/2009	0	N
	0.0	D33093	VC-STU001	8.00000000	0.0000	19/06/2009	0	N
	0.0	D33301	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D33302	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D33303	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D33305	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D33307	VC-IND004	4.00000000	0.0000	19/06/2009	0	N
	0.0	D36191T1	VU-MCM001	4.00000000	0.0000	19/06/2009	0	N
	0.0	D3781041	VU-MMA001	1.00000000	0.0000	19/06/2009	0	N
	0.0	D38821130	VC-BON001	63.00000000	0.0000	19/06/2009	0	N
	0.0	D38821130P	VC-BON001	10.00000000	44.9800	19/06/2009	1	N
	0.0	M1010B0750X025 00	VC-CAM002	4.00000000	5.9000	19/06/2009	1	N
	0.0	M1010B1500X010 00	VC-CAM002	22.35850000	4.9000	19/06/2009	1	N
	0.0	M1010B2500X010 00	VC-CAM002	4.00000000	8.5000	19/06/2009	1	N
	0.0	M1010B4000X005 00	VC-CAM002	21.95260000	5.8400	19/06/2009	1	N
	0.0	M1010S125	VC-CAM002	6.38570000	4.0500	19/06/2009	1	N
	0.0	M1020TR2000W50 0	VC-CAM002	4.00000000	10.2500	19/06/2009	1	N
	0.0	M174B1250X0200	VC-COP001	24.00000000	35.0000	19/06/2009	1	N
	0.0	M174B1500X0225 0	VC-COP001	20.00000000	46.8200	19/06/2009	1	N
	0.0	M174PHH900B393	VC-MAG002	10.00000000	479.0000	19/06/2009	1	N

Date : Friday, 08/05/2009 6:59:45 AM

User : Chantal Lavoie

AUTO PO REQUIREMENTS LIST

Job /SO Number	Seqn	Item	Supplier	Qty	Price	Date Required	Lead	Make
		7X4750						
	0.0	M2024T3S063	VC-CAM002	96.00000000	144 14.1500	19/06/2009	1	N
	0.0	M303R0313	VC-COP001	4.00000000	20 0.0000	19/06/2009	0	N
	0.0	M303R0500	VC-COP001	20.00000000	40 3.2000	19/06/2009	1	N
	0.0	M4130NR1250	VC-CAM002	4.00000000	16.5500	19/06/2009	1	N
	0.0	M5052H32S020	VC-CAM002	32.00000000	0.0000	19/06/2009	0	N
	0.0	M6061T6R0875	VC-CAM002	6.00000000	0.0000	19/06/2009	0	N
	0.0	M6061T6R1125	VC-CAM002	6.00000000	0.0000	19/06/2009	0	N
	0.0	M6061T6T03125W	VC-COP001	40.00000000	1.7500	19/06/2009	1	N
		058						
	0.0	M6061T6T0500W0	VC-COP001	200.00000000	0.0000	19/06/2009	0	N
		58						
	0.0	MLEXS125	VC-GEP001	64.00000000	2.8500	19/06/2009	1	N
	0.0	MS21042L4	VC-AVI001	6000.00000000	6000 0.2000	19/06/2009	1	N
	0.0	MS210433	VC-AVI001	15.00000000	100 1.5800	19/06/2009	1	N
	0.0	MS24694S100	VC-AVI001	35.00000000	100 0.0000	19/06/2009	0	N
	0.0	NAS43DB4 46	VC-AVI001	3.00000000	0.0000	19/06/2009	0	N

Chantal Lavoie

From: Eryck Blais [eblais@magnastainless.com]
Sent: May 5, 2009 3:37 PM
To: 'Chantal Lavoie'
Subject: RE: quote

THANK YOU
ERYCK

From: Chantal Lavoie [mailto:clavoie@dartaero.com]
Sent: Tuesday, May 05, 2009 11:18 AM
To: Eryck Blais
Subject: quote

Please advise price & delivery on material.

17-4 bar 1.250" x 2" x 24 ft 2 PCS 575.00 EACH 1 WEEK 47.916666 ✓
17-4 bar 1.5" x 2.250" x 24 ft OFFER 1 1/2" X 2 1/2" 2 PCS 750.00 EACH 1 WEEK
303 round bar .500" x 40 ft 4 PCS 26.00 STOCK ✓
~~4130N round bar 1.250" x 12 ft 1 PC 425.00 EACH DELAY 1 WEEK~~

Thanks
Chantal

Chantal Lavoie

From: Eryck Blais [eblais@magnastainless.com]
Sent: May 7, 2009 1:35 PM
To: 'Chantal Lavoie'
Subject: RE: quote

THANK YOU
ERYCK

From: Chantal Lavoie [mailto:clavoie@dartaero.com]
Sent: Thursday, May 07, 2009 10:29 AM
To: Eryck Blais
Subject: quote

Please advise price & delivery on material.
2024-t3 sheet .063 x 128 sf 3 PCS 445.00 EACH ✓
303 round bar .313 x 24 ft 2 PCS 10.00 EACH ✓
~~5052h32 sheet .020" x 32 sf WE START AT .032 AND UP~~
Thanks
Chantal

07/05/2009